

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Original Patent

Patentees: William A. Phillips
Mario Paparo
Piero Capocelli

Patent No.: 5,936,451

Title: DELAY CIRCUIT AND METHOD

Issued: August 10, 1999

Atty Dk No.: 95-L-024C3

Reissue Application

Applicants: William A. Phillips
Mario Paparo
Piero Capocelli

Serial No.: 09/927,426

Title: DELAY CIRCUIT AND METHOD

Filing Date: August 10, 2001

Atty Dk No.: 95-I-024C3RE (1678-41)

FIRST REISSUE APPLICATION DECLARATION BY THE INVENTORS

As a below named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of the subject matter that is claimed in patent number 5,936,451 granted August 10, 1999, and for which a reissue patent is sought on the invention entitled:

DELAY CIRCUIT AND METHOD

the specification of which

- ☐ is attached hereto.
- ☒ was filed on August 10, 2001 as reissue application number 09/927,426 and was amended on _____ (if applicable). If the filing date, amendment date, or reissue application number are not included when I execute this Declaration, I authorize the below appointed attorney(s) and/or agents(s) to insert the filing date, amendment date, or reissue application number when they become available.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all that apply.)

- ☐ by reason of a defective specification or drawing.
- ☒ by reason of the patentee claiming less than he had the right to claim in the patent.
- ☐ by reason of other errors.

Errors upon which reissue is based are described as follows:

I believe that "a plurality of current mirror current sources" and "a plurality of current mirror current drains" in claim 1, "a plurality of constant-current sources" and "a plurality of constant-current drains" in claim 7, and "a plurality of current mirror current elements" in claim 13 overly narrow the issued claims because an embodiment of our invention can include one current source, one current drain, or one mirror current element. Therefore, we have added new claims 16 – 35.

All errors corrected in this reissue application arose without any deceptive intention on my part.

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: all attorneys associated with Customer Number 30431.

Correspondence Address: Direct all communications about the application to:

Lisa K. Jorgenson
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I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof.

I do not know and do not believe that the claimed invention was ever patented or described in any printed publication in any country before my invention thereof.

I do not know and do not believe that the claimed invention was ever patented or made the subject of an inventor's certificate issued prior to the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns.

I do not know and do not believe that the claimed invention was ever patented or described in any printed publication in any country more than one year prior to the filing date of the original U.S. application.

I do not know and do not believe that the claimed invention was ever in public use or on sale in the United States of America more than one year prior to the filing date of the original U.S. application.

I hereby claim the benefit of priority, under 35 U.S.C. § 119 and 35 U.S.C. § 120, of any foreign application(s) for patent or inventor's certificate on which priority was claimed in the above-identified issued patent.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon, or any patent to which this declaration is directed.

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Inventor's Signature

December 3rd 2001
Date

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CERTIFICATE OF MAILING OR TRANSMISSION

"Express Mail" mailing label number: EF396429891US

Date of Deposit: March 4, 2002

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR, Section 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Box MISSING PARTS, Washington, D.C. 20231 by

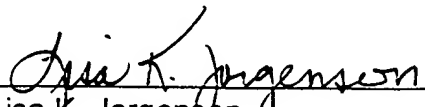

Signature

ASSENT OF ASSIGNEE

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

STMicroelectronics, Inc., assignee of U.S. Patent No. 5,936,451, consents to the filing of reissue application No. 09/927,426 (or the present application, if filed with the initial application papers) for the reissue of U.S. Patent No. 5,936,451.

STMicroelectronics, Inc.

A handwritten signature in black ink, appearing to read "Lisa K. Jorgenson", is written over a horizontal line.

Lisa K. Jorgenson
Director of Intellectual Property
Assistant Secretary

CERTIFICATE UNDER 37 C.F.R. § 3.75(d)

Applicants: William A. Phillips, Mario Paparo, and Peiro Capocelli

Reissue Application No.: 09/927,426

Filed: August 10, 2001

For: DELAY CIRCUIT AND METHOD

STMicroelectronics, Inc.

(Name of Assignee)

a corporation

(Type of Assignee, e.g., corporation,
partnership, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

- A. ☒ An assignment from inventor of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 007418 Frame 0679 (copy enclosed).
- B. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignees as shown below:
1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____
Frame _____ or for which a copy thereof is attached.
 2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____
Frame _____ or for which a copy thereof is attached.
 3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____
Frame _____ or for which a copy thereof is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 12/17/01

Name: Lisa K. Jorgenson

Title: Director of Intellectual Property & Assistant Secretary

Signature: Lisa K. Jorgenson